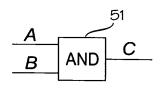


ln	Out	45
0	1	
1	0	

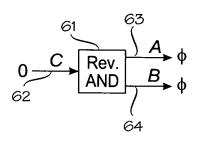
2/7

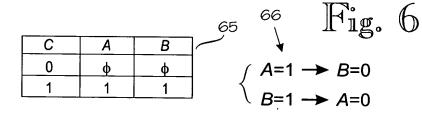
Fig. 4

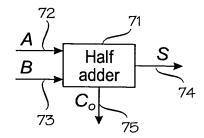


			55
Α	В	С	أتسرا
0	0	0	
0	1	0	
1	0	0	
1	1	1	

Fig. 5

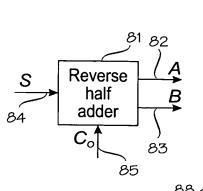






Α	В	S	Co
00	0	0	0
0	1	1	0
1	0	1	0
1	1	0	1

Fig. 7



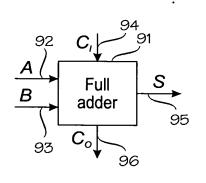
S <sub>.</sub>	Co	Α	В	
0	0	0	0	ľ
1	0	0	1	
1	0	1	0	
0	11	1	1	

$$88 \begin{cases} S=0 \& C_0=0 \longrightarrow A=B=0 \\ S=0 \& C_0=1 \longrightarrow A=B=1 \end{cases}$$

89 
$$\begin{cases} \text{if } S=1 \& C_{o}=0 \text{ then:} \\ \text{if } A=1 \text{ then } B=0 \\ \text{if } B=1 \text{ then } A=0 \end{cases}$$

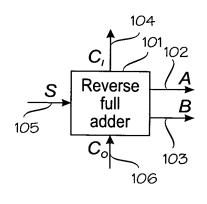
.

3/7 Fig. 9



		· · · /					
Α	В	C,	S	C <sub>o</sub>			
0	0	0	0	0			
0	1	0	1	0			
1	_ 0	0	1	0			
1	1	0	0	1			
0	0	1	1	0			
0	1	1	0	1			
1	0	1	O	1			
1	1	1	1	1			

Fig. 10



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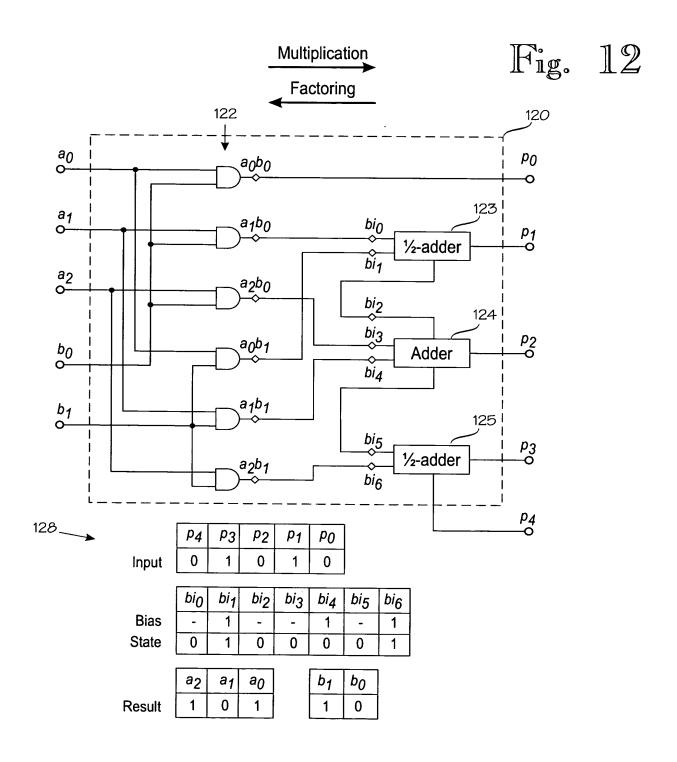
				107
S	C <sub>o</sub>	Α	В	C,
0	0	0	0	0
11	0	0	1	0
1	0	1	0	0
11	0	0	0	1
0	1	1	1	0
0	1	0	1	1
0	1	1	0	1
1	1	1	1	1

$$S=0 \& C_0=0 \longrightarrow A=B=C_i=0$$
  
 $S=1 \& C_0=1 \longrightarrow A=B=C_i=1$ 

if 
$$S=1 \& C_o=0$$
 then: if  $S=0 \& C_o=1$  then:  

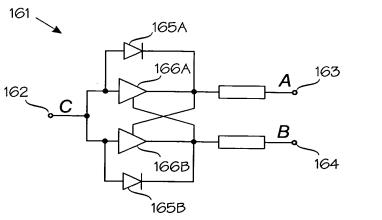
$$\begin{cases}
\text{if } A=1 \text{ then } B=C_i=0 \\
\text{if } B=1 \text{ then } A=C_i=0
\end{cases}$$
if  $A=0$  then  $A=C_i=1$   
if  $C_i=1$  then  $A=B=0$   
if  $C_i=0$  then  $A=B=1$ 

4/7 Fig. 11 a2 a1 a0 b0 *b*1 X a2b0 a1b0 a0b0 a2b1 a1b1 a0b1 <u>c1</u> c0 <u>p1</u> р3 *p*4 p2 p0



130

	-4		-0	4	0	- 0			14	1 . 0		
no	p4	р3	p2	p1	p0	a2	a1	a0	b1	b0	Result	Comment
0	0	0	0	0	0	0	0	0	0	0	0x0	Ok
1	0	0	0	0	1	0	0	1	0	1	1x1	Ok
2	0	0	0	1	0	0	0	1	1	0	1x2	Ok
3	0	0	0	1	1	0	0	1	1	1	1x3	Ok
4	0	0	1	0	0	0	1	0	1	0	2x2	Ok
5	0	0	1	0	1	0	1	1	1	1	-	False
6	0	0	1	1	0	0	1	1	1	0	3x2	Ok
7	0	0	1	1	1	0	1	1	1	1	-	False
8	0	1	0	0	0	1	0	0	1	0	4x2	Ok
9	0	1	0	0	1	1	0	1	1	1	-	False
10	0	1	0	1	0	1	0	1	1	0	5x2	Ok
11	0	1	0	1	1	1	0	1	1	1	•	Overflow
12	0	1	1	0	0	1	1	0	1	0	6x2	Ok
13	0	1	1	0	1	1	0	1	1	1	-	Overflow
14	0	1	1	1	0	1	1	1	1	0	7x2	Ok
15	0	1	1	1	1	1	1	1	1	0	-	False
16	1	0	0	0	0	0	1	1	1	0	-	Overflow
17	1	0	0	0	1	1	1	1	0	1	-	Overflow
18	1	0	0	1	0	1	1	1	0	1	•	False
19	1	0	0	1	1	1	1	1	1	1	-	Overflow
20	1	0	1	0	0	1	1	1	1	1	-	Overflow
21	1	0	1	0	1	1	1	1	1	1	7x3	Ok



به خلایر

